

NOV 23 1999

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## 510(k) Summary of Safety & Effectiveness

This 510(k) Summary of Safety and Effectiveness for the EBI SpineLink™ System is provided as required per Section 513(I)(3) of the Food, Drug and Cosmetic Act.

1. **Submitter:** EBI, L.P.  
100 Interpace Parkway  
Parsippany, NJ 07054
- Contact Person:** Jon Caparotta  
Telephone: (973) 299-9022

Date prepared: August 27, 1999

2. **Proprietary Name:** EBI SpineLink™ System
- Common Name:** Spinal Fixation Device
- Classification Names:** Spondylolisthesis Spinal Fixation Device System  
Spinal Intervertebral Body Fixation Orthosis  
Spinal Interlaminar Fixation Orthosis

3. **Predicate or legally marketed devices that are substantially equivalent:**

- EBI SpineLink™ System
- EBI Webb-Morley Spine System

4. **Description of the device:** The EBI SpineLink™ System is a spinal fixation device that uses interconnecting links and/or rods. This submission is for the addition of rods and couplers (pinchblocks) to supplement the existing system.
5. **Intended Use:** The EBI SpineLink™ System has not changed the Indications for Use or fundamental scientific technology of the previously cleared EBI SpineLink™ System (K964797, K971970, K984027, K982908, and K990999). The EBI SpineLink™ System is a spinal fixation device for pedicle screw fixation and a nonpedicle hook and sacral/iliac screw fixation system of the noncervical spine.

When used as a pedicle screw fixation system, in the non-cervical spine of skeletally mature patients, the System is intended to provide immobilization and stabilization of spinal segments, as an adjunct to fusion in the treatment of the following acute and chronic instabilities or deformities of the thoracic, lumbar and sacral spine: Degenerative spondylolisthesis with objective evidence of neurologic impairment, fracture, dislocations, scoliosis, kyphosis, spinal tumor, and failed previous fusion (psuedarthrosis).

In addition, when used as a pedicle screw fixation system in skeletally mature patients, it is intended for patients: (a) having severe spondylolisthesis (Grades 3 and 4) of the fifth lumbar - first sacral (L5-S1) vertebral joint; (b) who are receiving fusions using autogenous bone graft only; (c) who are having the device fixed or attached to the lumbar and sacral spine (L3 and below); and (d) who are having the device removed after the development of a solid fusion mass.

When used as a posterior hook and sacral/iliac screw fixation system, the levels of attachment are the lumbar and thoracic spine, and screw fixation limited to the sacrum and ilium. The System is intended for the treatment of degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies).

Psuedarthrosis; stenosis; scoliosis; spondylolisthesis, fracture; previous failed fusion; or tumor resection.

When used as an anterior fixation system, the levels of attachment are the anterolateral vertebral bodies of the lumbar and thoracic spine. The System is intended for the treatment of degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies). Psuedarthrosis; stenosis; scoliosis; spondylolisthesis, fracture; previous failed fusion; or tumor resection.

6. **Materials:** The components of the system are manufactured from Ti-6Al-4V ELI per ASTM F136. The components will be available with and without TiN coating.
7. **Comparison of the technological characteristics of the device to predicate devices:** There are no significant differences between the EBI SpineLink™ System and other currently marketed spinal systems. It is substantially equivalent\* to the predicate devices in regards to intended use, materials and function. Mechanical testing of the new components demonstrated that the device complies with applicable standards and meets all of its functional requirements.

\*Any statement made in conjunction with this submission regarding a determination of substantial equivalence to any other product is intended only to relate to whether the product can be lawfully marketed without pre-market approval or reclassification and is not intended to be interpreted as an admission or any other type of evidence in patent infringement litigation. [Establishment Registration and Premarket Notification Procedures, Final Regulation, Preamble, August 23, 1977, FR 42520 (Docket No. 76N-0355)]



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

NOV 23 1999

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

Mr. Jon Caparotta  
Manager, Regulatory Affairs  
Electro-Biology, Inc.  
100 Interpace Parkway  
Parsippany, New Jersey 07054-1079

Re: K992920  
EBI SpineLink™ System  
Regulatory Class: II  
Product Codes: MNI, MNH, KWP, and KWQ  
Dated: August 27, 1999  
Received: August 30, 1999

Dear Mr. Caparotta:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

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This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "<http://www.fda.gov/cdrh/dsmamain.html>".

Sincerely yours,

*Neil R.P. Ogden* for

James E. Dillard III  
Acting Director  
Division of General and  
Restorative Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

## Statement of Indications for Use:

*The EBI SpineLink™ System is a spinal fixation device for pedicle screw fixation and a nonpedicle hook and sacral/ilic screw fixation system of the noncervical spine.*

*When used as a pedicle screw fixation system, in the non-cervical spine of skeletally mature patients, the System is intended to provide immobilization and stabilization of spinal segments, as an adjunct to fusion in the treatment of the following acute and chronic instabilities or deformities of the thoracic, lumbar and sacral spine: Degenerative spondylolisthesis with objective evidence of neurologic impairment, fracture, dislocations, scoliosis, kyphosis, spinal tumor, and failed previous fusion (psuedarthrosis).*

*In addition, when used as a pedicle screw fixation system in skeletally mature patients, it is intended for patients: (a) having severe spondylolisthesis (Grades 3 and 4) of the fifth lumbar - first sacral (L5-S1) vertebral joint; (b) who are receiving fusions using autogenous bone graft only; (c) who are having the device fixed or attached to the lumbar and sacral spine (L3 and below); and (d) who are having the device removed after the development of a solid fusion mass.*

*When used as a posterior hook and sacral/ilic screw fixation system, the levels of attachment are the lumbar and thoracic spine, and screw fixation limited to the sacrum and ilium. The System is intended for the treatment of degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies). Psuedarthrosis; stenosis; scoliosis; spondylolisthesis, fracture; previous failed fusion; or tumor resection.*

*When used as an anterior fixation system, the levels of attachment are the anterolateral vertebral bodies of the lumbar and thoracic spine. The System is intended for the treatment of degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies). Psuedarthrosis; stenosis; scoliosis; spondylolisthesis, fracture; previous failed fusion; or tumor resection.*

*NRO for*  
**(Division Sign-Off)**  
**Division of General Restorative Devices**  
**510(k) Number** K992920

Prescription Use X  
(Per 21 CFR 801.109)